Exhibit 3

IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF OKLAHOMA

STATE OF OKLAHOMA, ex rel, W.A. DREW EDMONDSON, in his) capacity as ATTORNEY GENERAL) OF THE STATE OF OKLAHOMA, et al. Plaintiffs,) No. 05-CV-329-GKF-PJC vs. TYSON FOODS, INC., et al., Defendants.)

VOLUME 96 - AM

TRANSCRIPT OF NONJURY TRIAL PROCEEDINGS

JANUARY 14, 2010

BEFORE GREGORY K. FRIZZELL, U.S. DISTRICT JUDGE

REPORTED BY: BRIAN P. NEIL, CSR-RPR, RMR, CRR United States Court Reporter

IN THE UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF OKLAHOMA

STATE OF OKLAHOMA, ex rel, W.A. DREW EDMONDSON, in his) capacity as ATTORNEY GENERAL) OF THE STATE OF OKLAHOMA, et al. Plaintiffs,) No. 05-CV-329-GKF-PJC vs. TYSON FOODS, INC., et al., Defendants.)

VOLUME 97 - AM

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JANUARY 25, 2010

BEFORE GREGORY K. FRIZZELL, U.S. DISTRICT JUDGE

REPORTED BY: BRIAN P. NEIL, CSR-RPR, RMR, CRR United States Court Reporter

2.3

2.4

So in my particular case, I was able to use the observed data, create an empirical relationship that did describe implicitly fate and transport processes, it took the phosphorus from the edge of the field, took phosphorus from the wastewater treatment, and determined when this showed up at the gauging stations and how much of it showed up. It just didn't describe every process along the way.

THE COURT: Let's take a break. We're here in this subject matter at the heart of this lawsuit in terms of causation relative to describing the process between the edge-of-field and these three gauging stations. I mean, this is the heart in terms of causation so we need to focus on this.

Let's take a recess.

(Short break)

THE COURT: Mr. Page.

MR. PAGE: Thank you, Your Honor.

THE COURT: Yes, sir.

- Q. (BY MR. PAGE) Dr. Engel, before the break, we were talking about the empirical routing model that you employed. Now, this empirical model models phosphorus from where to where?
- A. So it models the phosphorus as it reaches the edge of the field as predicted by the GLEAMS model so

2.3

impact.' Are you saying the dominant impact or one of the dominant impacts?"

"The Witness: Based on the data that I have, it appears to be the dominant impact"?

"QUESTION: And what form of phosphorus are they seeing that 80 percent of the time?

"ANSWER: It's dominantly dissolved phosphorus, as we saw earlier in the plot of how much of the phosphorus is dissolved versus river flow.

Under base flow conditions, it's probably on (the) average of 80 to 85 percent dissolved, and from the wastewater-treatment plants being the source, most of that dissolved is soluble-reactive phosphorus.

"ANSWER: And that correspondence confirms for me the dominant source of . . . wastewater-treatment plants under base flow conditions that are occurring eight out of ten days during the principle growing period for algae further reinforces the idea that the wastewater-treatment plants are providing the phosphorus to the algae, and then lastly, the idea that most of that phosphorus is in a form that algae can use."

Now, Dr. Engel, do you agree with Dr. Connolly's opinions concerning the dominant form of phosphorus in this watershed being from

wastewater-treatment plants?

A. No.

2.3

2.4

Q. Why is that?

A. I conducted an analysis of the data from the watersheds that were used in the poultry house density analysis — the court may remember my testimony on that earlier, I guess last year now at this point — in which we looked at runoff, as well as base flow, from 12 subwatersheds in the Illinois River Watershed. The 12 that were used in my analysis did not have wastewater treatment impacts in them so there were no wastewater treatment discharges in these 12 watersheds.

The base flow data, we had both total phosphorus as well as soluble-reactive phosphorus available from those watersheds. My analysis of that data clearly indicates there's soluble-reactive phosphorus in base flow coming from these watersheds, and it ranges from, I believe, seven to about sixty, eighty, ninety micrograms per liter, and it represents about two-thirds of the total phosphorus — soluble-reactive represents about two-thirds of the total phosphorus in base flow from these watersheds.

So clearly there are other places, other nonpoint sources, contributing soluble-reactive

phosphorus to base flow.

2.3

2.4

- Q. Now, Dr. Engel, would you look with me on Demonstrative 414, please? What is this, sir?
- A. So this table summarizes the soluble-reactive phosphorus data from these small watersheds or small tributaries that I was describing a moment ago.

So each of those 12 watersheds is labeled here under the watershed, this first column, so HFS 02 is the first of these. And then at the bottom, some averages are going to be presented.

The second column represents the average base flow soluble-reactive phosphorus in micrograms per liter. That ranges from a low of 7 for high flow station 26 to 51, it looks like, for high flow station 16 and the average is 27.

- Q. So that's all soluble-reactive phosphorus that's concentrations displayed there?
- A. Correct. So these would be soluble-reactive phosphorus in base flow from multiple samples from these locations.
- Q. Did all of the subwatersheds that you analyzed that did not have wastewater-treatment plant discharge have soluble-reactive phosphorus in base flows?
- 25 A. Yes.

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 2
           FOR THE NORTHERN DISTRICT OF OKLAHOMA
 3
 4
   STATE OF OKLAHOMA, ex rel.
   W.A. DREW EDMONDSON, in his )
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   capacity as ATTORNEY GENERAL)
   OF THE STATE OF OKLAHOMA,
 6
   et al.
 7
                   Plaintiffs,
                                  ) CASE NO. 05-329-GKF-PJC
   VS.
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   TYSON FOODS, INC., et al.,
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                   Defendants.
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14
                       JANUARY 25, 2010
      BEFORE GREGORY K. FRIZZELL, U.S. DISTRICT JUDGE
15
                   VOLUME 98, P.M. SESSION
16
17
   APPEARANCES:
18
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   For the Plaintiffs:
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                               Assistant Attorney General
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                               313 N.E. 21st St.
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                               Oklahoma City, OK
                                                    73105
23
24
25
```

- 1 | Q. If we scroll out, we can find those -- they're
- 2 | a little harder to find in the spreadsheet. We can
- 3 | find them on your spreadsheet in columns AP through
- 4 AW in rows 1 through 3. Do you see your
- 5 | Nash-Sutcliffe values?
- 6 A. Yes. I believe those are the values here in
- $7 \mid AQ$, AT and AW for each of the gauging stations.
- 8 | That's my recollection.
- 9 Q. And for the record, can you provide the court
- 10 and the record with what those Nash-Sutcliffe values
- 11 | were for this particular model run?
- 12 A. Looks like there are -- looks like there are
- 13 | probably two values provided for each gauging
- 14 | station location, so it looks like the values in AQ2
- 15 and AQ3 are for the Illinois River at Tahlequah,
- 16 | values being 0.965559 and 0.96128. I don't recall
- 17 which periods those represent without looking
- 18 underneath the data again. And then there would be
- 19 | values for Barren Fork in the AT column of 0.82945
- $20 \mid \text{and in AT3 of } 0.757399$. So that would be for Barren
- 21 | Fork.
- 22 For Caney Creek would be out in the AW
- 23 | column. Those would be in AW2 and AW3, values would
- 24 be 0.550431 and 0.650948.
- $25 \mid Q$. Doctor, once again, the closer those values are

- 1 to one, the stronger the relationship or the
- 2 | correlation between observed loads and predicted
- 3 | loads, right?
- 4 A. Yes, that would be the case.
- $5 \mid Q$. Once again, the higher those values, the
- 6 | Nash-Sutcliffe values, the more confidence you place
- 7 | in the model as being useful as a predictive tool,
- 8 | correct?
- 9 A. That would generally be the case but, again,
- 10 there's broader context here as well.
- 11 | Q. Well, do you recall, Doctor -- I have a sense
- 12 | you're a little hesitant, and I want to explore it a
- 13 | little bit. Do you recall the last time you were in
- 14 | this courtroom and you were asked by Mr. Page about
- 15 the performance of the model, and you told His Honor
- 16 that the model performed well because of these high
- 17 | Nash-Sutcliffe and R coefficients or statistics?
- 18 Do you recall that?
- 19 A. Yes.
- 20 Q. You're not backing away from that statement,
- 21 | are you?
- 22 A. No.
- 23 Q. Let's get our head out of the spreadsheet for a
- 24 | moment and talk more conceptually about your routing
- 25 model. So I think we've established, Doctor, that

```
1
   Watershed as part of its TMDL?
2
             MR. PAGE:
                        Objection, Your Honor, assumes
3
   facts not in evidence.
 4
             MR. GEORGE: I asked whether he was aware.
 5
             THE COURT:
                         Overruled.
6
             THE WITNESS:
                           I'm not sure that I've seen
7
   any indication whether they were or weren't.
8
                         If they were headed down that
        (By Mr. George)
   0.
   path, would that be a mistake, in your view?
10
        Based on my conversations with other
   scientists, based on my review of data and
11
12
   scientific reports for the Illinois River Watershed,
13
   I think that will present some real challenges.
14
        Let's look at these coefficients in a little
15
   detail and talk about how they are created.
16
   the coefficients are calculated, their numeric
17
   values, prior to using the model for the forecast
18
   and the hindcast; is that right?
19
        Yes.
   Α.
20
        But when you first selected -- I think we
21
   established this earlier -- your particular routing
22
   equation, the coefficients did not have specific
2.3
   numerical values, right?
        When I wrote the form of the model, the
24
```

coefficients had, I guess, letters as placeholders,

25

- 1 | and those specific numeric values were later
- 2 determined, as we've discussed.
- 3 | Q. They were determined as part of the calibration
- 4 process, right?
- 5 A. Yes.
- 6 | Q. And so the way this works, Doctor, is you
- 7 | started by taking the output from your GLEAMS model
- 8 to represent runoff in the Illinois River Watershed
- 9 for 1998 to 2006, right? That was one of the first
- 10 steps in your calibration process with the routing
- 11 | model?
- 12 | A. Right. So GLEAMS was run to obtain those
- 13 outputs.
- $14 \mid Q$. Then you added to that the wastewater treatment
- 15 | plant loads for the same time period, right?
- 16 A. Correct.
- 17 \mid Q. Then you put that combined sum -- and the
- 18 | routing model doesn't care the difference between
- 19 | the two -- into the daily P to river value in your
- 20 | routing model, correct?
- 21 MR. PAGE: Objection, Your Honor. I think
- 22 that question is ambiguous. I don't know what he
- 23 means, a routing model doesn't care the
- 24 difference --
- 25 | MR. GEORGE: If it's unclear, I'm happy to

```
1
                          You may, sir.
             THE COURT:
 2
                          Doctor, what we've put on the
        (By Mr. George)
   Q.
 3
   screen and what I've handed to you is a
 4
   demonstrative exhibit that follows each of your and
 5
   Dr. Bierman's calibrations through the process and
 6
   shows the R<sup>2</sup> results and the Nash-Sutcliffe
 7
   results.
             And there are four pages.
                                          The first two
 8
 9
   pages relate to a comparison of your second errata
10
   phosphorus loads and R<sup>2</sup> with Dr. Bierman's
   sensitivity analysis, and then the last two pages
11
   focus on the S&P 500.
12
13
             The reason I've broken them out, you
14
   recall, do you not, that Dr. Bierman only did his
15
   S&P 500 test on the Illinois River main stem, right?
16
   Α.
        Correct.
17
        So, Doctor, you understand this schematic in
18
   terms of what is shown.
                            You see in the top panel
19
   the magnitude of the increases that Dr. Bierman
20
   applied.
              And you discussed this, I believe, in your
21
   direct to -- as compared to your second errata and
22
   some of his tests, you see the increased nonpoint
2.3
   source and the increased wastewater treatment
24
   plant?
25
        Yes, I see those.
   Α.
```

- 1 | Q. Those are substantial increases over the loads
- 2 | that you used that are shown in the second errata,
- 3 do you see that?
- 4 A. Yes.
- 5 | Q. And then he fed that information through the
- 6 | routing model. And the way your routing model
- 7 | works, when you feed in new loads and it runs, it
- 8 | generates R² and Nash-Sutcliffes, right?
- 9 A. Correct.
- 10 Q. And he calibrated your routing model as part of
- 11 | these tests as well, correct?
- 12 A. Well, he -- I wouldn't call what he did a
- 13 calibration. You know, the inputs didn't reflect
- 14 any sense of reality and nor did the observed loads
- 15 reflect what would occur under those conditions, so
- 16 | I would disagree with your description of this.
- 17 | O. Let's look at the results in terms of \mathbb{R}^2
- 18 | values. You see in the bottom that there's a chart
- 19 there that shows the R² values that you report from
- 20 your second errata for each of these subwatersheds.
- 21 | What's the range of those R² values?
- 22 A. So it looks like from .62 to .97 maybe.
- 23 Q. Then, Doctor, the next three rows show the R^2
- 24 values computed by the routing model for the three
- 25 different scenarios with increased or different

```
1
    loads by Dr. Engel, do you see those?
 2
             MR. PAGE: Your Honor --
 3
             MR. GEORGE:
                           I'm sorry, by Dr. Bierman.
 4
             MR. PAGE:
                         I think that's testimony that's
 5
   not in evidence.
                       There's been no evidence of these
 6
   R<sup>2</sup> with this procedure by Dr. Bierman.
 7
             MR. GEORGE:
                           I think Dr. Bierman, who
   Dr. Engel is here rebutting, testified at length
 8
 9
   about the R<sup>2</sup> values and his tasks compared to
10
   Dr. Engel's.
11
             THE COURT:
                          Overruled.
12
         (By Mr. George)
                           Do you see those values,
13
   Doctor?
14
        We're talking about the increased NPS line of
    this table?
15
16
        Yes.
             We can take all three of them, if you
17
   want to, for efficiency, the increased nonpoint
18
    source load, the increased wastewater treatment
19
   plant loads, then reversing your daily phosphorus
20
   loads.
21
   Α.
        Right.
22
        What's the range of R<sup>2</sup> values that Dr. Bierman
2.3
    got when he recalibrated your model and ran his
24
    tests?
25
             MR. PAGE:
                         Objection, Your Honor.
                                                    That's
```

- 1 | contrary to the witness's statement. The witness
- 2 | has disagreed with counsel that Dr. Bierman
- 3 recalibrated his model.
- 4 MR. GEORGE: Your Honor, we could quarrel
- 5 over this all day long, I suspect, in terms of
- 6 | semantics. If there's another phrase that the
- 7 | doctor would like for me to use, I would be happy
- 8 | to.
- 9 THE COURT: Overruled. Go ahead.
- 10 | Q. (By Mr. George) What are the range of values,
- 11 Doctor?
- 12 | A. Well, the range of values are like .72 to .97.
- 13 Q. Doctor, those are as good, if not better, than
- $14 \mid \text{the R}^2 \text{ that you report using what you claim are more}$
- 15 | realistic phosphorus loads, right?
- 16 A. Yes.
- 17 | Q. If you'll turn to the second page, Doctor, it's
- 18 | the same format. The only difference here is we've
- 19 shown the Nash-Sutcliffe values as opposed to the R²
- 20 | values in the bottom panel. Do you see that?
- 21 A. Okay.
- 22 Q. For the benefit of the record, in your second
- 23 errata, you agree with me the Nash-Sutcliffe values
- 24 | that you report range from .55 for Caney Creek to
- 25 .96 for the Illinois River?

- 1 A. Yes.
- 2 | Q. And then we have a comparison with
- 3 Dr. Bierman's test with increased loads. And do you
- 4 agree that they range from a low of .76 to a high of
- 5 .96?
- 6 A. I'm not sure I would characterize it as a test,
- 7 | but I mean, the numerical values reported in the
- 8 | table are in that range.
- 9 Q. Those are as good, if not better, than the
- 10 | Nash-Sutcliffe values that you obtained using what
- 11 | you claim to be more realistic phosphorus loads,
- 12 | right?
- 13 | A. I'm not sure I would characterize them as good
- 14 or better. So there's, again, broader context that
- 15 these were done in many cases with unrealistic
- 16 | values, and so making that interpretation would be
- 17 | inappropriate.
- $18 \mid Q$. Are the Nash-Sutcliffes higher in his analysis
- 19 | as compared to yours?
- 20 A. Looks like in some instances, the
- 21 Nash-Sutcliffes in this table are higher.
- 22 Q. Doctor, if you'll turn to the third page, the
- 23 | format is the same, only now we've shown the S&P
- 24 values that were replaced in Dr. Bierman's
- 25 analysis. And you see at the bottom that we again

- 1 have a comparison of R² values.
- 2 A. Yes.
- 3 Q. As compared to what you obtained in your second
- 4 errata using what you claim to be more realistic
- 5 | phosphorus loads, Dr. Bierman obtained the same R²
- 6 | in his evaluation, did he not?
- 7 A. The reported values are the same, yes.
- 8 Q. They're both .97, aren't they?
- 9 A. Yes.
- 10 | Q. That suggests a strong correlation between the
- 11 | S&P values that he plugged in and the phosphorus
- 12 | loads at Lake Tenkiller, doesn't it?
- 13 | A. Well, there were other problems with the S&P
- 14 | analysis, as I talked about this morning, and so
- 15 when the models were uncoupled, you know, the S&P
- 16 was providing nonpoint source inputs on days that it
- 17 didn't rain, which logic tells one that wasn't
- 18 | happening.
- 19 So there has to be context with some of
- 20 these, so when you rip these apart like this, you
- 21 | lose context. And just looking at R² may not mean a
- 22 lot in this case.
- 23 Q. So I want to make sure I understand. R² don't
- 24 mean a lot in this case; is that your testimony?
- 25 MR. PAGE: Objection, Your Honor, that's

```
1
   not his testimony.
2
             THE COURT:
                         Sustained.
 3
             MR. GEORGE:
                          I'm sorry if I misunderstood.
 4
        (By Mr. George)
                          Dr. Engel, let's look at the
   0.
5
   last page of this demonstrative just to close the
6
   loop on this. We again have the loads for the S&P
7
   500 in place of the phosphorus loads that you used,
   and then at the bottom a comparison of the
8
9
   Nash-Sutcliffe this time as opposed to R2.
                                                 Do you
   see that?
10
11
   Α.
        Yes.
12
        Once again, is it true that Dr. Bierman
13
   obtained the same Nash-Sutcliffe .96 using the S&P
14
   500 Index values as compared to your phosphorus
15
   loads in your second errata?
16
        The reported numerical values were the same.
   Α.
17
   And, again, this same contextual issue would apply
18
   in that by decoupling the models, we've now created
19
   an unrealistic set of inputs that don't match what's
20
   happening.
21
        Doctor, given that you can calibrate this model
22
   for five different sets of inputs and have all of
2.3
   those generate results that correlate equally well
   to the same observed loads, there's no way of
24
25
   knowing which calibration is correct, is there?
```

```
1
   witness.
2
             THE COURT:
                        Redirect.
 3
             MR. PAGE:
                        Thank you, Your Honor.
 4
             Could we leave Tyson Demonstrative 257 up,
5
             This is the one with the bar charts that
   please.
6
   was from -- the one I can remember the best, so we
7
   better start with that one first.
                    REDIRECT EXAMINATION
8
9
   BY MR. PAGE:
10
        Dr. Engel, we just heard testimony on this
                      Are there more than 12 small
11
   particular chart.
12
   watersheds in the IRW contributing to the Illinois
13
   River?
14
        Yes, there would be on the order of several
   hundred the size of these small watersheds.
15
16
        And, sir, would you say that the majority or
17
   somewhat less than majority of these small
18
   watersheds are influenced by wastewater treatment
19
   plant?
20
        So the -- there would be very few of these
21
   small watersheds influenced by wastewater treatment
22
   plant discharge.
2.3
        So we're not just talking about 12 possible
   small watersheds that would contribute nonpoint
24
25
   source SRP in the IRW, are we, sir?
```

- 1 A. No. There would be on the order of several
- 2 hundred.
- 3 | Q. How many of those several hundred actually are
- 4 | influenced by wastewater treatment plant?
- 5 | A. I'm not sure of the number, but it would be,
- 6 | you know, certainly less than 50, less than 20.
- 7 | Q. Now, let's talk about these two subwatersheds
- 8 that were left out of your 12 watershed analyses.
- 9 | That's HFS 04 and HFS 22, correct, sir?
- 10 A. Yes.
- 11 | Q. And Mr. George asked you some questions about
- 12 | the level of concentrations of -- in those two
- 13 | subwatersheds, correct?
- 14 A. Yes.
- 15 Q. And they are, those in the base flow, much
- 16 | higher than the average concentrations from the
- 17 other 12; is that correct?
- 18 | A. Correct.
- 19 Q. Now, have you evaluated the land uses relating
- 20 to those two watersheds, that is HFS 04 and 22?
- 21 A. I have evaluated them, but I am not recalling
- 22 | what the land uses are at this point, but they did
- 23 | include wastewater treatment plant discharge.
- 24 Q. Did they also include poultry houses?
- 25 | A. They would have included some poultry houses as

1		INDEX	
2			
3	REB	JTTAL WITNESSES ON BEHALF OF PLAINTIFFS	PAGE
4			
5	DR.	BERNARD ENGEL	
6		Cont'd Cross-Examination by Mr. George Redirect Examination by Mr. Page	
7		Realized Brammation by III. Tage	11300
8	CIIDI	DEDUMENT MINNECCEC ON DEUXIE OF DEFENDANCE	
9	SURREBUTTAL WITNESSES ON BEHALF OF DEFENDANTS		
10	DR.	JOHN CONNOLLY	
11		<u> </u>	11515
12		Cross-Examination by Mr. Page	11522
13	REB	JTTAL WITNESSES ON BEHALF OF PLAINTIFFS	
14	22	GGOMM WHILE	
15	DR.	SCOTT WELLS	11506
16		Direct Examination by Mr. Page	11526
17			
18			
19			
20			
21			
22			
23			
24			
25			
23			

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 2
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                               MS. KELLY FOSTER
                               Assistant Attorney General
                               State of Oklahoma
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                               313 N.E. 21st St.
22
                               Oklahoma City, OK
                                                    73105
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1
   how to deal with it in our findings.
2
             THE COURT: No, you misunderstand.
3
   possibly take judicial notice under 201(c).
                                                  I may
4
   or may not. And I don't have to decide today.
                                                     So I
   won't.
5
6
             MR. NANCE:
                         I just wanted to understand
7
   what the court had said, and now I do.
             THE COURT:
                         I'm just giving you an idea.
8
9
   It seems to me that a Federal Register notice,
   particularly as it pertains to this watershed, may
10
   well be something that I ought to take judicial
11
12
   notice of. And if I were sitting on the Tenth
13
   Circuit, I'd scratch my head and wonder why that
14
   silly judge didn't take judicial notice of it.
15
   I'm not deciding that today. It hit me cold here.
16
             It strikes me that the Chesapeake Bay
17
   letter probably won't be something that I take
18
   judicial notice of. But I also took a fresh look at
   Rule 52, again (c), and it specifically provides
19
20
   that the court may, however, decline to render any
21
   judgment until the close of the evidence.
                                                I'm going
22
   to decline to enter judgment on the two remaining
2.3
   Rule 52(c) subsets, state public law nuisance and
24
   statutory claims, and we'll leave that for findings
25
   and conclusions. Particularly since I have to enter
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1	INDEX	
2		
3	REBUTTAL WITNESSES ON BEHALF OF PLAINTIFF	PAGE
4		
5	DR. SCOTT WELLS	
6	Cross-Examination by Mr. Ehrich Redirect Examination by Mr. Page	11564 11587
7		
8		
9		
10		
11		
12		
13		
14		
15 16		
17		
18		
19		
20		
21		
22		
23		
24		
25		